ADDENDUM NO. 002

TO THE

PLANS AND SPECIFICATIONS

FOR

VA LOMA LINDA HEALTHCARE SYSTEM

EXPAND EMERGENCY DEPARTMENT

EwingCole Architects.Engineers.Interior Designers.Planners Discovery Business Center 15231 Laguna Canyon Road, Suite 200 Irvine, CA 92618 (949) 417-7550

Addendum No. 002 Project No. 20120401 August 10, 2016

The following changes shall become part of the Contract and shall supersede anything called for previously in the Specifications or shown on the Contract Drawings with which they may be at variance. This Addendum shall be a part of and attached to the Specifications.

SPECIFICATION CHANGES

NEW SPECIFICATION SECTIONS

The following new specification sections are hereby issued this date:

Not Applicable

REISSUED SPECIFICATION SECTIONS

The following specification sections are hereby reissued this date:

102513 – Patient Bed Service Walls.

DRAWING CHANGES

Drawing No. G-003

1. Update mounting heights.

Drawing No. A-521

- 1. Revise elevation 2A with revised headwall type.
- 2. Revise elevation 3A with revised headwall type.

Drawing No. A-711

1. Revise headwall information to reflect Hill-Rom Headwalls.

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NEW DRAWINGS

REISSUED DRAWINGS								
	G-003							
	A-521							
	A-711							

END OF ADDENDUM NO. 02

SECTION 10 25 13 PATIENT BED SERVICE WALLS

PART 1 - GENERAL

1.1 DESCRIPTION

This section specifies the furnishing, installation and connection of the patient wall systems both horizontal and vertical. Patient wall systems are also referred to as prefabricated bedside patient units or PBPUs.

1.2 RELATED WORK

- A. Section 22 62 00, VACUUM SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES AND Section 22 63 00, GAS SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES: Requirements for air, oxygen and vacuum outlets in the patient wall units.
- B. Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS: General electrical requirements that are common to more than one section of Division 26.
- C. Section 26 05 33, RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS: Raceways and outlet boxes for wiring.
- D. Section 26 05 21, LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (600 VOLTS AND BELOW): Cables and wiring.
- E. Section 26 27 26, WIRING DEVICES: Wiring devices to be installed in the patient wall units.
- F. Section 26 24 16, PANELBOARDS: Panelboard requirements for patient wall units with a panelboard.
- G. Section 26 05 26, GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS:

 Requirements for personnel safety and to provide a low impedance path to ground for possible ground currents.
- H. Section 26 51 00, INTERIOR LIGHTING: Lighting fixture requirements when installed in or connected to the patient wall units.
- I. Section 27 52 23, NURSE CALL/CODE BLUE SYSTEMS: Nurse Call and Code One requirements for installation in the patient wall units.

1.3 SUBMITTALS

- A. In accordance with Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, submit the following:
- B. Shop Drawings:
 - 1. Sufficient information, clearly presented, shall be included to determine compliance with drawings and specifications.

- Include electrical ratings, dimensions, mounting details, front view, side view, equipment and device arrangement, wiring diagrams, material, and connection diagrams.
- 3. Determine final layout of each style of patient wall system at this stage. Provide configuration drawings showing all possible device (nurse call, medical gases, electrical receptacles and switches, etc.) locations to the Resident Engineer. The Resident Engineer will provide by return of submittal the desired configuration of each style of patient wall system. Limit the number and type of devices allowed for each style of unit to the number and type of devices specified for that style below.
- C. Manuals: Two weeks prior to the final inspection, deliver four copies of the following to the Resident Engineer.
 - 1. Complete maintenance and operating manuals including wiring diagrams, technical data sheets, and information for ordering replacement parts:
 - a. Include complete "As installed" diagrams which indicate all items of equipment, their interconnecting wiring and interconnecting piping.
 - b. Include complete diagrams of the internal wiring for each of the items of equipment, including "As installed" revisions of the diagrams.
 - c. Identify terminals on the wiring diagrams to facilitate installation, maintenance and operation.
- D. Certifications: Two weeks prior to the final inspection, deliver four copies of the following certifications to the Resident Engineer:
 - 1. Certification by the manufacturer that the equipment conforms to the requirements of the drawings and specifications.
 - Certification by the Contractor that the equipment has been properly installed, adjusted, and tested in accordance with the manufacturer's recommendations.

1.4 APPLICABLE PUBLICATIONS:

- A. Publications listed below (including amendments, addenda, revisions, supplements and errata) form a part of this specification to the extent referenced. Publications are referenced in text by the basic designation only.
- C. Underwriters Laboratories, Inc. (UL):

UL listed in product category SECTIONS AND UNITS (QQXX). This standard used to investigate listed products in this category is NFPA 70 (NEC).

PART 2 - PRODUCTS

2.1 PATIENT WALL SYSTEMS

- A. Shall be UL listed.
- B. Shall consist of a structural framework, removable panels and removable equipment console units, factory assembled to house all permanent bedside services including but not necessarily limited to fixtures, grounding jacks, power outlets, telephone outlet, nurses call patient station, medical gas outlet(s) and other fittings or devices.
- C. Shall conform to the following:
 - 1. Applicable requirements in NFPA 70 (NEC) and NFPA 99.
 - 2. Assembly and all components shall be UL listed or labeled.
- D. Coordinate the mounting space provisions for the nurse call equipment with Section 27 52 23, NURSE CALL/CODE BLUE SYSTEMS.
- E. Compressed Air, Oxygen and Vacuum System Equipment: Furnish, install and test the equipment in accordance with the drawings and Section 22 62 00, VACUUM SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES and Section 22 63 00, GAS SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES.
 - Fixed medical gas outlets are permanently installed in one location and may not be moved without special tools and shutting off the gas involved.
 - 2. Movable medical gas outlets:
 - a. Hose connected to gas manifold type:
 - 1) The hoses connected to gas manifold shall be UL listed and labeled for the purpose.
 - 2) All hoses shall be accessible at all times. Use bars or other restraining devices to control exposed hoses. A panel may cover the hoses provided it can be easily removed with out the use of special tools for hose inspection.
 - b. Relocatable type:
 - 1) Relocatable (snap-in) without the use of tools to any one of several different fixed locations.
 - 2) Appropriate relocatable adapter can be used to access available gases from each fixed location.
 - 3) Cover all unused locations with a blank (no gas) adapter plate.
- F. Electrical receptacles and switches shall comply with the requirements in Section 26 27 26, WIRING DEVICES; grounding in Section 26 05 26, GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS; and internal wiring in

Section 26 05 21, LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (600 VOLTS AND BELOW).

G. Styles:

1. Life Support Room:

Style B1: Single PBSW system consisting of a horizontal unit by Hill-Rom Elements system.

- a. Provide horizontal units that consist of a minimum of two (2) rails if the bed light is independently mounted.
 - 1) Provide a middle rail for power, nurse's call and medical gases.
 - 2) Provide horizontal with vertical chase connecting rails to above ceiling junction boxes and gas connection points.
 - 3) Wire electrical devices in accordance with the schematic diagram shown on construction documents.
- c. Provide oxygen gas outlets: Four (4) each fixed or two (2) each movable.
- d. Provide air outlets: Four (4) each fixed or two (2) each movable.
- e. Provide vacuum outlets: Six (6) each fixed or three (3) each movable.
- f. Provide emergency power outlets: Two (2) each NEMA 20R single receptacles, self-illuminated red with stainless steel or anodized aluminum cover plates, engraved "EMERGENCY POWER" with minimum 6 mm (1/4 inch) red filled letters.
- g. Provide normal power outlets: Five (5) each NEMA 20R single white receptacles; one (1) of which is for the bed motor. Provide stainless steel or anodized aluminum cover plates.
- h. Provide a nurses call audio-visual single bed station.
- i. Provide tele-cart jack.
- j. Provide auxiliary light, 6 to 7 watts, with hood and switch. Mount both on stainless steel or anodized aluminum face plate installed in a single gang box.
- k. Provide a switch for the overhead/exam light.
- Provide a PBSW mounted bed light fixture. Refer to Section 26 51 00, INTERIOR LIGHTING. The bed light must be powered through the PBSW unit.
- 2. Psych Exam and Holding Room Security Console:
 - 1. Style- Secured: A single bed PBSW unit consisting of a unit.
 - a. Provide horizontal units that consist of a minimum of two (2) rails.

- 1) Provide top rail for power, data, nurse call, and medical gases.
- 2) Provide bottom rail for power and mounting bracket for M4100 and M4200.
- 3) Clear cover with keyed lock
- H. All styles of the units shall have the following features:
 - 1. Basic structural framework shall be constructed of heavy gage extruded aluminum or minimum 1.9 mm (14 gage) cold-rolled steel, designed to be a self-supporting unit for above-the-floor, for close wall mounting or a freestanding installation. For freestanding units, provide the framework with a base plate and overhead structural supports.
 - 2. Drill and tap the side frame members to permit the installation of front panel devices at modular intervals at any elevation between the top and bottom.
 - 3. Provide removable front panels:
 - a. Construct panel of the following materials:
 - 1) Fire retarding core material surfaced with a high pressure plastic laminated facing sheet.
 - 2) Vinyl material heat and pressure applied over a minimum of 1.6 mm (0.060 inch) sheet aluminum back braced for rigidity and sound control.
 - 3) Vinyl material heat and pressure applied over sheet steel minimum 1.6 mm (0.060 inch).
 - 4) Vinyl material heat and pressure applied over sheet aluminum minimum 2.0 mm (0.080 inch).
 - b. Bond the panel edges with an aluminum extrusion or cold-rolled steel trim designed for mounting directly to the structural framework, thus allowing the panels to be easily removed for access to internal components and for servicing of utility connections or future modifications. Secure panels with hidden screws or other means to offer an overall finished appearance. All exposed metal surfaces or trims greater than 4 mm (1/8 inch) wide shall be of anodized aluminum or stainless steel finished to resist abrasion and affects from hospital cleaning compounds.
 - 4. Style A1 need not have back panels, provided they are edge gasketed to the wall or totally and inconspicuously edge sealed to the wall with a resilient caulking material. Attach side and back panels sheet steel, a minimum of 1.6 mm (0.060 inch) or equivalent strength

- aluminum side and back panels, with flush screws to permit close wall mounting. Finish side panels to match or compliment the front panels. Match back panel for free-standing units with the finish of the front and side panels.
- 5. Mount patient service components in an equipment console made up of a backbox and finish fascia.
 - a. Use galvanized steel backbox with outlet gang openings on minimum 60 mm (2.4 inches) uniform centers to provide mounting supports of front panel devices. Provide removable metal barriers to separate voltage sources and to facilitate wiring between segregated devices within the same horizontal module.
 - b. Match finish, either anodized aluminum or stainless steel of all fascia and device face plates.
 - c. Fascia and/or face plates may be omitted for power and grounding receptacles in the consoles if the receptacles are mounted flush in the PBPU cover panel and facilities (support members, tapped holes, spacing, etc.) are provided behind the panel for future addition or relocation of receptacles.
 - d. Provide smooth external surfaces having a finished appearance. Maintain adequate spacing of device plates and similar items to eliminate crevices and facilitate cleaning.
- 6. Provide patient services as indicated in paragraphs Styles above, the schematic wiring diagram shown on drawings, and as follows:
 - a. Electrical components: Factory assembled and prewired to a sectionalized junction box at the top of the unit in accordance with circuiting and switching arrangements shown on the drawings. Factory assembled prewiring may be stranded in sizes AWG #10 and #12. Provide an equipotential ground bus with lugs suitable for connecting AWG #14 to AWG #6 conductors with a minimum of 48 screw-type terminals, unless otherwise shown.
 - b. Receptacles: Single Hospital Grade NEMA 5-20R, unless otherwise specified.
 - c. Provide medical gas components compatible with those installed elsewhere in the project that are factory assembled, manifolded and pre-piped, using medical grade copper pipe, to single point connections of each service at the top of the units.
 - d. Provide nurse call services consisting of provisions for adequate space and matching face plates for the equipment and empty conduit to the sectionalized junction box at the top of the unit.

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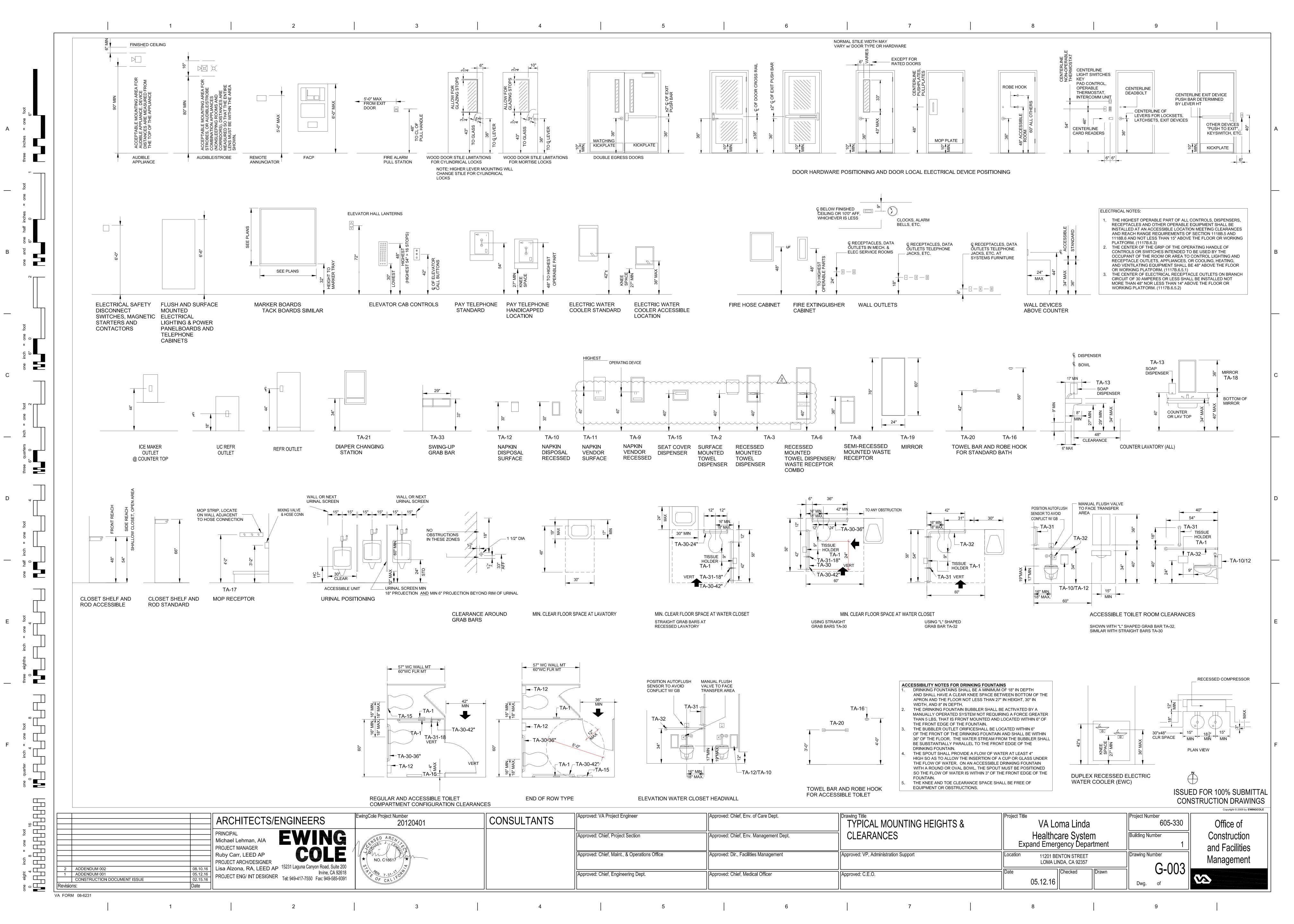
- e. Provide internal power and signal wiring in separate EMT, flexible metal conduits or approved raceway. Separate normal power circuits from emergency power circuits. Also, provide adequate supports for conduits and piping within the structural frame.
- f. Telephone outlets/jacks: Plug-in type as approved by the VAMC.
- g. Except for anodized aluminum and galvanized or stainless steel surfaces, clean and paint all other metal surfaces at the factory with primer and not less than two coats of baked enamel.

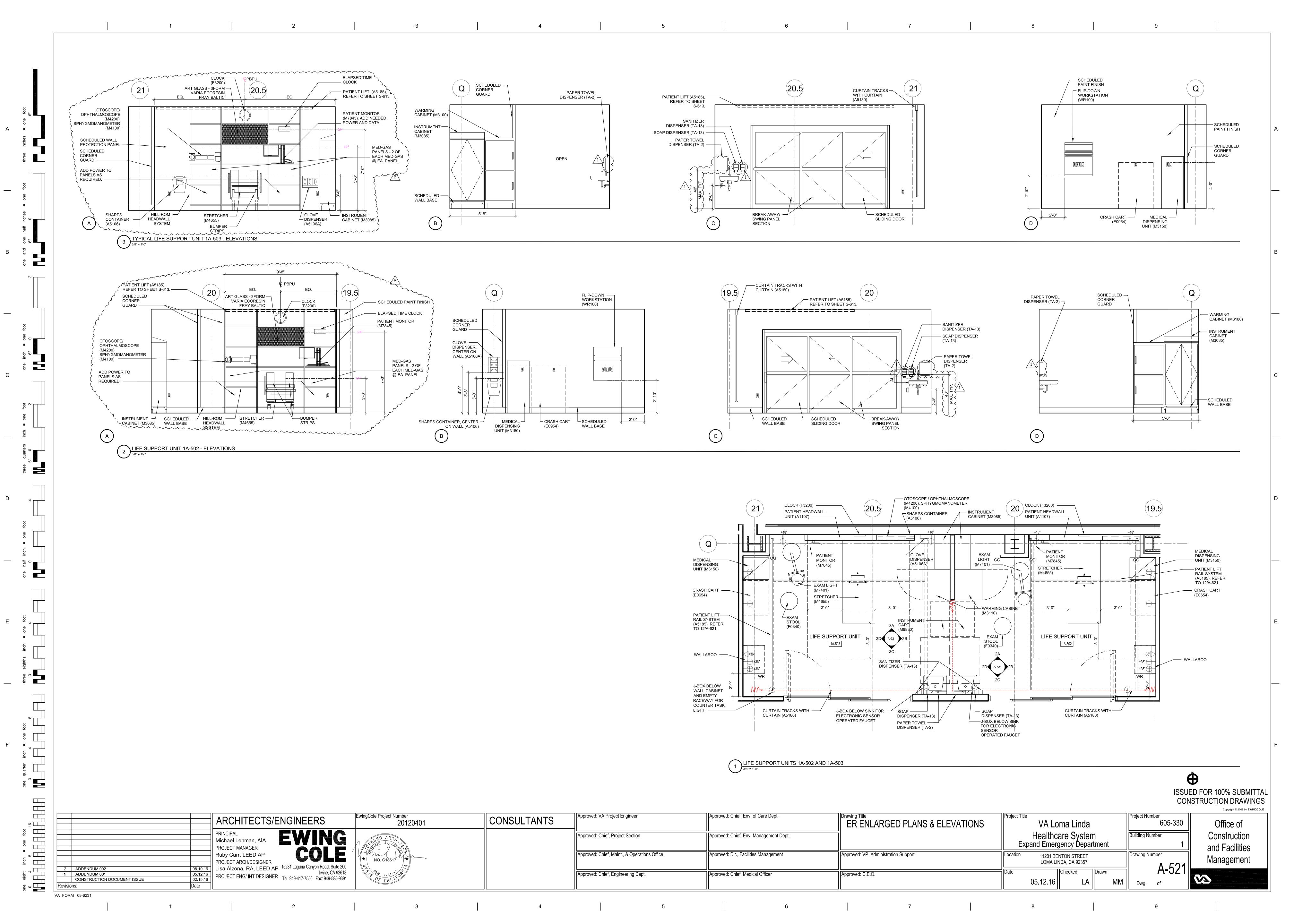
PART 3 - EXECUTION

3.1 INSTALLATION:

- A. Installation shall be in accordance with NFPA 70 (NEC), NFPA 99, and as shown on the drawings.
- B. Compressed Air, Oxygen and Vacuum System Equipment:
 - 1. Install and test the equipment and piping system in accordance with the drawings and Section 22 62 00, VACUUM SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES and Section 22 63 00, GAS SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES.
 - 2. Install and make connections as required for a complete and operational patient wall system for each unit.

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				EXPAND EMERGENCY DEPARTI	MENT EQUIPMENT LIST	1					
ROOM NUMBER	ROOM NAME EQUIPMEI TAG JC		QTY ACQ / INS V is VA, C is Contractor	B.O.D. MANUFACTUR	RER/MODEL P	POWER DATA	WATER /DRAIN MEDGAS	MOUNTING	SEISMIC ANCHORAGE	COMMENTS	S
1A-272, 1A-271	Life Support A1010 A1011 A1107	Telephone, Desk, 1 Line	1 CC 1 CC 1 CC	BOD: Hill-Rom Elements System. 109" in length. Actual number and locatio with the VA. Contractor's Vendor is to provide shopdrawing for review.	on of medical gas and power outlet configuration is to be verified	Y	O,V, A	Wall	Contrac	tor is provide a Vendor shopdrawing showing nun ries location for VA approval	nber and location of service
	A4015 A5075		1 CC 1 CC	BOD: Hospital Systems Inc - React Clock/Elapsed Timer mounted on the he Georgia Pacific Automated Soap Dispenser #52053, Color Smoke, Operate	eadwall rail ed on 4D Alkaline battery.	Y					
	A5075 A5080	TA-2 Dispenser, Paper Towel, SS, Surface Mounted	1 CC 1 CC	Georgia Pacific Automated Sanitizer Dispenser #53010, Color Black, Opera Georgia Pacific 'enMotion Automated Touchless Dispenser #59462, Color S							
	A5106 A5106A E0948	Glove Dispenser,	2 VV 2 V/V 1 VV	5 quart container 3 box side loading							
	E0954 F0340	Cart, Emergency, Mobile, 66"H x 52"W x 22"D Stool, Self Adjusting	1 VV			Y			Provide	power outlet at 48" high for equipment charging	
	F0355 F2000 F3200	Basket, Wastepaper, Round, Metal	1 VV 1 VV								
	M0750 M0755 M0765	Flowmeter, Air, Connect w/50 PSI Supply Flowmeter, Oxygen, Low Flow	2 VV 2 VV								
	WR100		1 CC	BOD: Carstens Wallaroo 2000 XT, with upper and lower cabinet, W= 24 7/8 x 17- 7/8"	8" x Lower H: 17-7/8" + Upper H: 7-1/2". Work Surface is 24 7/8"	Y		Wall	Wall backing Cabinet	weight capacity at 50 lbs	
	M1801 M3070 M3072	Hamper, Linen, Mobile, w/Lid	1 VV 1 VV			Y		Stored in WR100			
	M3085 M3110	Instrument Cabinet	1 CC 1 VC	BOD: Blickman Health Industries 7970SS-1- Paul freestanding instrument/s		Y		Floor	Floor/Wall anchorage		
	M3150 M4116	Monitor, Vital Signs	1 VV 1 VV	BOD: Pyxis: Medstation 4000, 6-drawer main W= 22.8", D=27", H=54.3"		Y Y					
	M4200 M4255 M4655	Stand, IV, Adjustable	1 VV 2 VV	BOD: Pyxis: Stryker Stretcher Zoom		Y					
	M7490 M7845	Exam Light Portable	1 VV 1 VV	BOD: Stryker Visum Xblade LED Exam light on rolling stand		Y		Mounted on the headwall. Include	Mounted	d on the headwall. Include bracket in headwall co	onfiguration'
	M7905		1 VV			Y		bracket in headwall configuration' Mounted on the headwall. Include bracket in headwall configuration'	Mounted	d on the headwall. Include bracket in headwall co	onfiguration'
	M8810 A5180 A5185	Track, Cubicle, Surface Mounted, With Curtain	1 VV 1 CC AR CC	BOD: Guldmann GH3:550 LB-770 LB		V		Ceiling Ceiling			
	Exam Room, Observation A1010 A1011	Telecommunication Outlet Telephone, Desk, 1 Line	1 CC 1 CC			Y		Celling			
	A5075 A5075 A5080	TA-13 Dispenser, Hand Sanitizer	1 CC 1 CC	Georgia Pacific Automated Soap Dispenser #52053, Color Smoke, Operate Georgia Pacific Automated Sanitizer Dispenser #53010, Color Black, Opera Georgia Pacific 'enMotion Automated Touchless Dispenser #59462, Color States	ated on 4D Cell Alkaline battery.						
	A1066 A5106	TA-18 Mirror, Float Glass, With SS Frame	AR CC VV	5 quart container							
	A5106A E0948		2 V/V	3 box side loading							
	F2000 F3200	Basket, Wastepaper, Round, Metal Clock, Battery, 12" Diameter	1 VV 1 VV								
	M0750 M0755 M0765	Flowmeter, Oxygen, Low Flow	1 VV 1 VV				Y Y Y	Wall Wall Wall			
	WR100 (futu M1801	ure) Wall mounted flip down workstation	1 VC	BOD: Carstens Wallaroo 2000 XT, with upper and lower cabinet, W= 24 7/8 x 17- 7/8"	8" x Lower H: 17-7/8" + Upper H: 7-1/2". Work Surface is 24 7/8"	Y		Wall	Wall Backing VA has	to the option to install in the future	
	M3070 M3072	Hamper, Linen, Mobile, w/Lid Frame, Infectious Waste Bag w/Lid	1 VV 1 VV								
	M4100 M4200 M4255	Otoscope/Ophthalmoscope, Wall Mounted	1 VV 1 VV 2 VV								
	M4655 M7490	Stretcher, Mobile, CRS, 9 Position Exam Light Portable	1 VV 1 VV	BOD: Pyxis: Stryker Stretcher Zoom BOD: Stryker Visum Xblade LED Exam light on rolling stand							
	M7845 M8810 A5185	Stand, Mayo	1 VV 1 VV AR CC	BOD: Guldmann GH3:550 LB-770 LB		Y		Ceiling	Support and bracing to		
	F0205 F0340	Stool, Self Adjusting	1 VV 1 VV						structure above		
	Psych Exam Room A1108		1 CC 1 C/C	BOD: Modular Services Co- Model # RSC -317. Provide Medical Gas outlet Call, Code Blue, 1 Data, 1 Normal electric, 1 emergency (red) outlet. Mount		Y	Y	Ceiling Wall	10" stud	partion required for wall installation	
	M4100 M4200		1 VV	wall stud connection.		Y		Wall			
1A-210A	On-call room A1010 A1011	Telecommunication Outlet Telephone, Desk, 1 Line	1 CC 1 CC			Y					
	A1066 A5145 A5210	TA-16 Hook, Garment, Double, SS, Surface Mounted	AR CC 1 CC 1 CC	GCX Dual Channel Ceiling Mount CM-0010-02/Pivot arm wall mount kit - Ki	P-0004-20			Wall/Ceiling	Wall backing/Ceiling Support		
	C0025	Cabinet, Wardrobe, 1 Door, 84x24x22	1 VV					Trail coming	Train sacring coming cappers		
	E0042 F0280 F2000	Chair, Swivel, Low Back	1 VV 1 VV								
	F2405 F3200 M0500	Clock, Battery, 12" Diameter	1 VV 1 VV			Y		Wall/ceiling bracket			
44.240	M1801 M1825	Computer, Microprocessing, w/Flat Panel Monitor Printer, Computer	1 VV 1 VV			Y Y Y					
1A-210	Staff Lounge A1010 A1012 A5075	Telephone, Wall mounted, one line TA-13 Dispenser, Soap	1 CC 1 CC	Georgia Pacific Automated Soap Dispenser #52053, Color Smoke, Operate	•	Y					
	A5075 A5080 A5145	TA-2 Dispenser, Paper Towel, SS, Surface Mounted	1 CC 1 CC AR CC	Georgia Pacific Automated Sanitizer Dispenser #53010, Color Black, Opera Georgia Pacific 'enMotion Automated Touchless Dispenser #59462, Color S	-						
	A5210 F0225	Bracket, Television, Wall Mounted, w/Adjust Arm	1 CC AR VV	GCX Pivot arm wall mount kit - KP-0004-20				Wall	Wall backing		
	F0795 F2000 F3200	Basket, Wastepaper, Round, Metal	AR								
	K1552 K4665	Brewer, Coffee, Auto, Elect, 3 Burner, Front/Back Oven, Microwave, Consumer	1 VV 1 VC 1 VV			Y	Plumbed to hot water line				\Phi
	M0500 R7000	, , , , , , , , , , , , , , , , , , ,	1 VV 1 VV	BOD:GE Energy Star 18.2 CUF, model GTE18ITH, W=29-1/2" x D = 34 1/4 included)	4" x H= 66-7/8". Net weight - 208 lbs (stored item weight not	Y Y		Floor	Yes		UED FOR 100°
	Janitor's Closet A5135	Fruits a Colo Duois et Number	1 CC	Approved: VA Project Engineer	Approved: Chief, Env. of Care Dept.	Drawi	ng Title	Pro	oject Title	Project Number	ONSTRUCTION
	AR	CHITECTS/ENGINEERS 20120401	CONSULTAI	NIS		E	ng Title R EQUIPMENT LIST		VA Loma Linda	605-330	_
	Micha PROJE	ael Lehman, AIA		Approved: Chief, Project Section	Approved: Chief, Env. Management Dept.				Healthcare System Expand Emergency Departments	rtment 1	Cons and F
2 ADDENDUR.ccc	Ruby PROJE	Carr, LEED AP ECT ARCH/DESIGNER Alzona PA LEED AP 15231 Laguna Canyon Road, Suite 200		Approved: Chief, Maint., & Operations Office	Approved: Dir., Facilities Management	Appro	oved: VP, Administration Support	Lo	cation 11201 BENTON STREET LOMA LINDA, CA 92357	Drawing Number	∥ Mana
2 ADDENDUM 002 1 ADDENDUM 001 CONSTRUCTION D	05.12.16 OCCUMENT ISSUE 02.15.16	Alzona, RA, LEED AP 15231 Laguna Canyon Road, Suite 200 Irvine, CA 92618 ECT ENG/ INT DESIGNER Tel: 949-417-7550 Fax: 949-585-9391		Approved: Chief, Engineering Dept.	Approved: Chief, Medical Officer	Appro	oved: C.E.O.	Da	te O5.12.16 Checked MS	Drawn A-1 I	(E)
Revisions: A FORM 08-6231	[Date]										